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- 2019 SkS Weekly Climate Change & Global Warming News Roundup #47
- New report finds costs of climate change impacts often
- underestimated Skeptical Science New Research for Week #46, 2019
- Here Are 3 Climategate Myths
 That Have Not Aged Well
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Archives Climate Hustle

Denial101x MOOC - Full list of videos and references at your fingertips

Posted on 3 September 2015 by LarryM, BaerbelW

Comments

The "Denial101x - Making Sense of Climate Science Denial" MOOC (Massive Open Online Course) is now available as a self-paced course that anyone can take at any time. The course was produced by the all-volunteer Skeptical Science team and the University of Queensland, and hosted on the edX-platform. The lectures and expert interviews provide a unique resource for countering climate myths, learning effective myth-debunking techniques, and learning the basics of climate science in easily digestible bites. These resources are now available in an organized and easily searched format. Use them often!

The Consensus Project

MOOC videos. The collection of Denial101x videos listed below is organized by week and by topic. There are 81 lectures on focused topics, each about 5-7 minutes in length, plus 40 full interviews with experts in climate science and climate communication. The video playlist is also available on the **Denial101x YouTube channel**.

MOOC references. Each Denial101x lecture is supported by peer-reviewed research. A **comprehensive list of references** is available, with links to the corresponding papers.

- MOOC-related blog posts:
- Q&A on Reddit about <u>climate</u> science denial
 Background on the psychological underpinnings of Denial101x
- Inoculation One key approach to countering (climate) science denial
- Feedback about the first iteration of Denial101x

Other SkS resources:

- Fact_Myth_Fallacy.pdf A summary of <u>climate</u> myths debunked during <u>Denial101x</u> and their associated logical fallacies.
 SkS climate myth rebuttals Denial101x videos have been embedded in the
- SkS climate graphics These pages contain links to all SkS rebuttals and blog posts that use each graphic (example).
- Summary video Making sense of <u>climate</u> science denial (featuring many gratuitous scenes in Paris!)

Index of videos by week

- Introduction to Denial101x (video)
- Week 1 Overview of the climate controversy Week 2 – Global warming is happening
- Week 3 We are causing global warming
- Week 4 The past tells us about the future
- Week 5 Impacts of climate change
- Week 6 Responding to denial

Consensus of evidence	https://youtu.be/5LvaGAEwxYs
Consensus of scientists	https://youtu.be/WAqR9mLJrcE
Consensus of papers	https://youtu.be/LdLgSirToJM
From the experts: Scientific consensus	https://youtu.be/tU_aMg73h90
Knowledge based consensus	https://youtu.be/HUOMbK1x7MI
Vested interests	https://youtu.be/8i-fDTeHyd8
Dragons of inaction	https://youtu.be/b3mxyFGjelA
Ideological bias	https://youtu.be/nj1-tDKuHno
From the experts: Psychology of denial	https://youtu.be/qLF6S7vIZDA
Manufacturing doubt	https://youtu.be/uhykhXxjzGE
From the experts: Skepticism vs Denial	https://youtu.be/pyeRHCpRM
Media balance-as-bias	https://youtu.be/YdUVe0kd24A
Structure of an effective debunking	https://youtu.be/SSPLiCvh7xA
Five characteristics of science denial	https://youtu.be/wXA777yUndQ
From the experts: Spread of denial	https://youtu.be/OjMx7dFZsr4
From the experts: Attack on science	https://youtu.be/aeSNhayqGcl
Week 1 wrap up	https://youtu.be/znJkCgibsO0
Scientific Method	https://youtu.be/OBYwy8vMvNI
Full interview with Ben Santer	https://youtu.be/EOrUYQhGzT8
Full interview with Naomi Oreskes	https://youtu.be/suz_13pXgEw
Full interview with Peter Doran	https://youtu.be/TGbYpmhpXzY
Full interview with Stephan Lewandowsky	https://youtu.be/7FQUsCyLzIE
Full interview with Lawrence Hamilton	https://youtu.be/m0dXY2e6SrY
Full interview with Katharine Hayhoe	https://youtu.be/BjhrwA9f4G8
Full interview with Michael Mann	https://youtu.be/k3j9j6WNpRM
Full interview with Eugenie Scott	https://youtu.be/sCk_3RNWdZI
Full interview with Ritayan Mitra	https://youtu.be/s4DxkYiDXhY

Week 2 – Global warming is happening

Week 3 overview

Taking up residence

The greenhouse effect

Reinforcing feedback

Measuring from space

Daily and yearly cycle

Week 3 wrap up

Upsetting the natural balance

From the experts: Carbon cycle

Increasing the greenhouse effect

Structure of our atmosphere

From the experts: Greenhouse effect

Full interview with Corinne Le Quéré

Full interview with Steve Sherwood

Full interview with Luke Barnard

Full interview with Joanne House

Full interview with Ed Hawkins

Human CO2 emissions trump volcanoes

Week 2 overview	https://youtu.be/UWrg96LEZgE
Heat build-up	https://youtu.be/Lepc2OKX6uQ
Hot records	https://youtu.be/5IxYhEKbsZo
Sea level rise	https://youtu.be/dBs_K59K6GY
Shrinking glaciers	https://youtu.be/we39vRtT1d0
Greenland ice loss	https://youtu.be/M9hQBGXsEP0
Antarctic land ice vs sea ice	https://youtu.be/9PUmKHBtnIA
Cryosphere: Expert Interviews	https://youtu.be/ERLd15drxDA
Building a robust temperature record	https://youtu.be/YKQiyBkt4Vs
Heat in the city	https://youtu.be/pidRKmq2iGI
Wavy jet stream	https://youtu.be/B1fwNnJUYgU
Climate change vs global warming	https://youtu.be/HAF9jl6fupA
Week 2 wrap up	https://youtu.be/z0vJHeVjE5A
Full interview with Phil Jones	https://youtu.be/fuRU10ocuds
Full interview with Jonathan Bamber	https://youtu.be/evOy3e4tNQU
Full interview with Fabrice Calmels	https://youtu.be/3ECc5d1j8L4
Full interview with Antoni Lewkowicz	https://youtu.be/PmTfqLOmNXc
Full interview with Eric Rignot	https://youtu.be/kzaKaLq86pE
Full interview with Lonnie Thompson	https://youtu.be/Z3sU24BD5vQ
Full interview with Isabella Velicogna	https://youtu.be/VRbVoA3Ccos

https://youtu.be/cSYHn2ubmAE https://youtu.be/kQ9hPI9dI98 https://youtu.be/w5p9osQqpSE https://youtu.be/8R4YavfQ7jk https://youtu.be/iEDnjIeBRk8 https://youtu.be/PTfnuX-HVk8 https://youtu.be/PTfnuX-HVk8 https://youtu.be/We8VXwa83FQ https://youtu.be/dHozjOYHQdE https://youtu.be/H4YSwajvFAY https://youtu.be/LM_sKZCv26A https://youtu.be/kEuSfMRB7pU https://youtu.be/FhHuaq1xQbU https://youtu.be/irWfvG32q0o

https://youtu.be/JBqcZQxYPrs

https://youtu.be/tgzTDcpA3oM

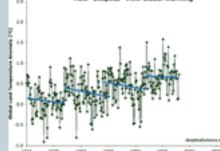
https://youtu.be/2i1xJ68SREQ

https://youtu.be/EkShFvzt1W4

https://youtu.be/CG7WjmkXbCA



The Consensus Project Website



(free to republish)

Full interview with Mike Lockwood	https://youtu.be/NqHQ8i6G-eI
Full interview with Bill Ruddiman	https://youtu.be/CaUHSV6yCA8
Week 4 – The past tells us about the fut	ure
Week 4 Overview	https://youtu.be/Dxp5YJNWPi0
Modern vs. past climate change	https://youtu.be/H5kejSYPD7U
The Little Ice Age	https://youtu.be/0n3bX_5d7vA
Ancient CO2 levels	https://youtu.be/aqkGoCglp_U
From the experts: The past	https://youtu.be/GGEjfUHPVcE
Medieval warm period	https://youtu.be/AD16nCsvjqs
Confused decline	https://youtu.be/dc8A6SIJijs
From the experts: The decline	https://youtu.be/yP6N9nbmS54
Principles that models are built on	https://youtu.be/mYU2uawYPIE
Climate model success stories	https://youtu.be/Y_jKXcgR_QA
Weather vs climate	https://youtu.be/YwfX5I9FuPI
Climate science in 1970s	https://youtu.be/_F6bq0I18Ng
Future ice age	https://youtu.be/jaVM5H_TGrU
Tendency to underestimate climate impacts	https://youtu.be/NfggcaM666s
From the experts: Climate Models	https://youtu.be/PZo1TYpsy2U
Week 4 wrap up	https://youtu.be/W-Gx9lfYao4
The Climate of Middle Earth: Part 1	https://youtu.be/jJNkd5g6oxI
Full interview with Tim Osborn	https://youtu.be/mWF68qo1s
Full interview with Andy Pitman	https://youtu.be/trlp4yBbHrU
Full interview with Greg Webb	https://youtu.be/lwd4_lLjxql
Full interview with Katrin Meissner	https://youtu.be/IPfQAIvfWkA
Full interview with David Stevens	https://youtu.be/2fwx_COshsY

Week 5 overview https://youtu.be/4YHOMi58aGc Climate is sensitive https://youtu.be/u4L8w5wUh9s Water vapor amplifies warming https://youtu.be/u9L49p9Y8Mg The role of clouds in climate change https://youtu.be/TW33e9J3fRc Methane clathrate feedback https://youtu.be/IOYHKIvRYMc Adaptation takes time https://youtu.be/LrIN6gK3S0A From the experts: Ecological impacts https://youtu.be/ijEx2L7keEY https://youtu.be/MddWTJEFrTc Polar bears Ocean acidification https://youtu.be/W1TZ8g8JYVU From the experts: Coral bleaching and ocean https://youtu.be/JMaFknj3e4k acidification Overall impacts https://youtu.be/TcxxhDVvTXU Carbon Dioxide is a pollutant https://youtu.be/quU3bG7IVfY Agricultural impacts https://youtu.be/wcDUaBO8T34 From the experts: Impacts on society https://youtu.be/Zhv8bvXJ5fs Extreme weather https://youtu.be/ljwu1DLaE9w Heat waves https://youtu.be/POaVUAnp5j0 Hurricanes https://youtu.be/9mKC49AUVUo Week 5 wrap up https://youtu.be/N85TuCJX65o Making sense of the slowdown https://youtu.be/CE1yQz_VJHc The Climate of Middle Earth: Part 2 https://youtu.be/sRS1ptPOF54 Full interview with Richard Alley https://youtu.be/JQimNeJn9D4 Full interview with Ove Hoegh-Guldberg https://youtu.be/_tCChCDT8ol Full interview with Charlie Veron https://youtu.be/SCek8oTB5KM Full interview with Annamieke Van De Heuvel https://youtu.be/3-IxN7TCS0A Full interview with Sir David Attenborough https://youtu.be/Hs73hRhWovQ Full interview with Christine Hoskings https://youtu.be/louEPsIspV0 Full interview with Kevin Trenberth https://youtu.be/su5FVIzOBi0

Week 6 – Responding to denial

Week 6 overview	https://youtu.be/gJ0xTCDNnmo
Vocal Minority	https://youtu.be/uKWDGIBKIGc
Worldview Backfire Effect	https://youtu.be/CtSk03efSqQ
From the experts: Moving past barriers to change	https://youtu.be/9lt19FHt50g
Inoculation Theory	https://youtu.be/K3YngyVdyrl
Sticky science	https://youtu.be/TM-zNO02phw
Flu Shots	https://youtu.be/wfq0Xrgsn_4
From the experts: Debunking	https://youtu.be/4pg0fDdo85I
From the experts: Climate metaphors	https://youtu.be/UBa0f4uoQm0
Week 6 wrap up	https://youtu.be/2sxv2R09jOI
The Climate of Middle Earth: Part 3	https://youtu.be/zIe6EefVjTw
Full interview with Dan Lunt	https://youtu.be/HpaJ3mKftas
Full interview with Simon Donner	https://youtu.be/CZENiRzi2q0
Full interview with Ullrich Ecker	https://youtu.be/VT6QjLnYGu8
Full interview with Michael Ranney	https://youtu.be/EIRSUgRo4dU
Full interview with Courtney St. John	https://youtu.be/8cDx3ijVb78
Full interview with Mark McCaffrey	https://youtu.be/gnU6DxIINLk

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Comments 1 to 20:

Comments

1. Digby Scorgie at 14:01 PM on 4 September, 2015

I have to confess that I've not — yet — read any of the material of this course, but I have a related question that has been bothering me for some time. If it has already been answered, I beg forgiveness.

My question concerns deniers who reject the evidence for global warming. Has anyone asked them what they would consider to be "proper" evidence? For example, no more ice at the poles would surely be incontrovertible, if rather drastic; how about some intermediate situation, such as an ice-free Arctic Ocean in September? I would dearly like to know what they would put forward. It should be very entertaining.

📥 0 👎 0

2. BBHY at 16:08 PM on 4 September, 2015

Digby, for many people logic and facts are not the driver of their views on climate change.

A recent Washington Post survey found that when Donald Trump proposes a policy, Republicans love it and Democrats hate it. When President Obama proposes a policy Democrats love it and Republicans hate it. This applies **even when it is the exact same policy**.

Views on <u>climate change</u> are similar. Many people have their particular view not because of the facts and logic, but because it helps identify them as belonging to their chosen political camp. This is just human nature.

Personally I prefer facts and logic, but I beleive I may be in the minority in that regard.

📥 0 押 0

3. Tom Curtis at 16:55 PM on 4 September, 2015

BBHY @2, in defense of the aparently illogical Democrats and Republicans in that survey, there are policies I would trust some parties to impliment, but not others, even when the policy is essentially the same at a brief level of description. Not only is there much devil in the detail that can be a make or break issue on some policies, but even the detail of legislation does not cover the way in which policies are administered which can also make a difference.

📥 0 👎 0

4. **BBHY** at 23:34 PM on 4 September, 2015

Tom Curtis, true, that is a good point. Still, I feel my point is valid,. People like to idenify with a group, it is a good feeling to be a part of something larger than oneself and for many people that can be a more powerful driver than cold, dry facts.

To be clear, I'm not suggesting that these people cannot be reached, or even convinced to change their minds. I only suggest that facts, or as Digby puts it, evidence, presented alone, is not the most effective way to reach them. There are many other ways to reach someone, and different personality styles will respond to different methods. Advertisers understand this well and will produce ads that reach us in different ways on different levels. Naratives, humor, and appeals to emotional, moral and social resonance are just a few. Of course facts should be included as well, but they need to be presented in the proper context to be widely convincing. Politicians are naturally skilled at making these kinds of convincing arguments, while the typical scientifically oriented personality is not. There are notable exceptions; Neil DeGrasse Tyson and Bill Nye for instance. But I think this generally explains why so many people find the arguments of politicians more convincing than those of scientists, even though the scientists may have a far superior backing of evidence. 📥 1 柠 0 5. **Digby Scorgie** at 12:37 PM on 5 September, 2015 Um, fellows, I don't think you understand my question. If someone tells me global warming is a myth, I'd like to ask, "OK, so what would you say would be proper evidence of global warming?" I'm past the stage of caring what people think of climate change. I doubt that any effective action will be taken in the near future. It will be the planet that will change people's minds — and then it will be too late. Nevertheless, I'm still curious about how deniers would answer my question. While there's curiosity, there's hope?! 🖕 0 🕊 0 6. **r.pauli** at 13:51 PM on 5 September, 2015 the YouTube channel for Potholer54 has a wonderful playlist on denialists https://www.youtube.com/watch?v=52KLGqDSAjo&list=PL82yk73N8eoX-Xobr_TfHsWPfAlyI7VAP "The main purpose of this channel is to explain in simple terms the conclusions of scientific research, and correct some of the unsourced crap we get fed on the Internet. I am a former science journalist (see the "Who I am" video) with a degree in geology." He is Peter Hadfield - I have enjoyed everything he has done. - https://en.wikipedia.org/wiki/Peter_Hadfield_(journalist) 📥 0 🕊 0 7. Tristan at 03:09 AM on 6 September, 2015 Digby, the evidence they ask for can be put into one of three boxes: A) Can't realistically happen (temps tracking alongside Hansen's 1988 projection for Scenario A, which never occurred) B) WIII happen someday (statistically significant warming trend from both satellite datatsets from 1998+) C) Has already happened (evidence global warming is happening, is human caused, and is bad) In all cases, should evidence of any of those things occur, the committed denier will simply change their requirement, or find a reason why that evidence is unacceptable. This is not a unique feature of climate science denial, but relates to every sort of denial that exists. 🖕 0 루 0 8. Digby Scorgie at 14:28 PM on 6 September, 2015 Tristan, I wouldn't want to confront their denial. I'd like to get behind it. If someone tells me global warming is a myth, another way I could perhaps achieve this is to ask "OK, I believe you (says he, lying in his teeth). If global warming were really to occur, what would you expect to see?" I know that there are many people whose worldview excludes the possibility of global warming in our time. I'd like to nudge them into thinking about a different world (like the PETM maximum) where global warming does occur. So what if global warming does not occur in their world. I'd like them to imagine a world where it does occur and then give me a description of it. 📥 0 루 0 9. Benzeke at 16:54 PM on 6 September, 2015 Digby, you are asking a very tough question. Time is not on your side for an easily recognized, opinion changing event to happen in the next few years. IMHO, the answer is: 'when Fox News says so'. I have floated the idea of a 'Fox News Moment', akin to the economic Minsky Moment. Or better yet, the 'Wile E. Coyote Moment' when he realizes he is about to fall to the bottom of the canyon. It is inevitable that the day will come when the ultra wealthy conservative class will realize that they have significant skin in the game and it is in their financial interest to change the agenda. Fox News will be the mechanism. I suspect a healthy number already understand this, but think denial is in their best interest, financially or politically. Cynical, but one reason they are rich is because they think this way. At some point, hopefully in the relatively near future, Fox will change its message. I think this will happen before there is any really obvious event that would change the minds of the rank and file denialists. The change will be framed in such a way that it does not compromise the current arguments. i suspect something along the lines of 'conservatives finally got the science right after the liberal, big science parasites screwed it up'. As for evidence a bit more tangible, I am afraid how hot is it now and where is sea level at the moment are all that will satisfy some people. Some will never acknowledge a change even if the water is lapping at their doorstep. Unfortunately the US east coast has been cooler than normal lately. Since 'how hot I am now' gets extrapolated to the whole world, a significant portion of the US is unaware that this is going to be a very hot year: it's been 123 in Basra, Iraq, but... it's Iraq. The 2011 La Nina brought Austin, Texas 99 days of 100 or higher, with 112 being the highest, and this was insufficient to convince Texans that the planet is warming. The previous record was 69 days of 100 or greater. I fear it will take Basra-like temperatures to convince Texans that we are messing with the planet. The next strong La Nina event is going to get interesting for Texas. 📥 0 🕊 0 10. Tom Peel at 01:50 AM on 7 September, 2015 Digby, in my experience no evidence has ever convinced a denialist to change his position. What happens is that at some point deniers will not dispute whether global warming is taking place. They will simply say that climate has always changed in the past and therefore whether humans are responsible for the change right now is irrelevant. 📥 1 루 0 11. michael sweet at 02:45 AM on 7 September, 2015 Tamino recommended this video which gives a recommendation for a general discussion where you want to change another persons position. I thought that the points the speaker makes are good and will try to use them in the furute. He suggests that arguing the facts with a denier (which is mostly what I have done in the past) is ineffective and does not get people to change their views (even when your facts are correct). He has suggestions for a better way to address the conversation. 📥 0 🕊 0

12. scaddenp at 07:34 AM on 7 September, 2015

- I think a classifictal and classification of the

I've tried this Digby and wish you the best of luck. Basing your opinions on data rather than tribal values is not something that humans do naturally and on the

this amazig planet. The fudamental problem is that not everyone will responsibly limit their pursuit The developed socio-political-economic systems which measure success thro personal perceptions of power, popularity and profitability encourage people to pursue the freedom to behave as thoughlessly, callously and irresponsibly as possible because that allows them to perceive to have 'won compared to othe Live lightly and as helpfully as you are able. And if you are able, point out the unacceptability of those other percieved to be desireable ways of 'spending' a lifetime.)
this amazig planet. The fudamental problem is that not everyone will responsibly limit their pursuit The developed socio-political-economic systems which measure success thro personal perceptions of power, popularity and profitability encourage people to pursue the freedom to behave as thoughlessly, callously and irresponsibly as possible because that allows them to perceive to have 'won compared to othe Live lightly and as helpfully as you are able. And if you are able, point out the)
this amazig planet.	0.
I support the pursuit of enjoyment in life limited by behaving thoughtfully, responsibly and considerately so that your actions do not contradict or confour challenge the development of a lasting better future for a robust diversty of life	on
	0 ≁ 0
"At my age I'd risk blowing a gasket." You know, that is advice I should follow too before it's too late.	
	0 👎 0
I have deliberately steered clear of denier websites. They're toxic. At my age risk blowing a gasket. As for my friends, there are actually none that I know of entertain denier thoughts. If there are any, they keep such thoughts private. S just going to sit back and relax, and see if the wheels fall off before I kick the bucket. I would so love to see the smirk wiped off the face of every denier on planet.	f who So I'm
18. Digby Scorgie at 13:43 PM on 8 September, 2015	0 🌱 0
If they won't understand the <u>CO2</u> issue you have found someone who has dec to resist being convinced. Ask them what is motivating their deliberate reluctar understanding what is going on. They probably will not answer but I am sure the will understand that some unacceptable personal interest is motivating them. The acknowledgment is the first step toward the required change of made-up mind have been easily impressed by made-up claims.	nce to ney That Is that
 references to peer-reviewed publications. Correct any clear misuderstandi with information from this course. Based on their, potentially new, understanding about CO2 in the atmospherask them if they have changed their mind. If they have, then share the course link and encourage them to delve into the fuller understanding of what is going on. 	ere
 The history of CO2 levels in the atmosphere and the rapid recent increase Why the rapid recent increase? Use the resources in the course to ensure that the facts of CO2 levels through the past 800,000 years are clearly understood. What do they believe the effects of CO2 in the atmosphere are? What is the science of CO2 related to incoming solar ratiation and outgoing infrared radiation from the surface. Ask them to provide a rational explanation with 	
 From my perspective it is more imporant to ask them to explain things. And wh would ask them to explain are: The history of CO2 levels in the <u>atmosphere</u> and the rapid recent increase 	
17. One Planet Only Forever at 02:08 AM on 8 September, 2015 Digby Scorgie,	0 👎 0
and you just have to accept there is no conversation possible. We are a specious species	0
start. It's like a kid asking endless questions who never listens to the answers: it's id	-
 16. bozzza at 14:56 PM on 7 September, 2015 in summary: FOX won't change its message because its message is merely of obfuscation that can be morally defended on spurious grounds from the very series of the series of th	
and how much the captive audience lets you get away with. The worlds always been run by psychos: such is the role of enterprise.	s 0 ? 0
Entertaining the middle postion is always possible: some call it walking both si of the street at the same time and some call it compromise- it's all in the langu	age
They just want a captive audience on the hook and only when they get the feedback that the game isn't working will they switch to a new method.	
entertaining two ideas at once. Nuclear Power has always been flogged as the for climate change going back to the 60s " but, but, but wait: there's more!!"	cure
 15. bozzza at 14:37 PM on 7 September, 2015 @9, the fake conservatives have always sold stuff and this means constantly entertaining two ideas at once. Nuclear Power has always been flogged as the) CUTO
	0 7 0
 scaddenp at 14:24 PM on 7 September, 2015 Just wander over to any denialist web site and you can soon find plenty to plate 	Ŋ
As an old man with no children to fear for, I find myself in the position of an observer monitoring an interesting experiment: Will the deniers continue to sabotage climate action until it's too late, or will they be overruled in time?	0 🏴 0
 Digby Scorgie at 14:01 PM on 7 September, 2015 Well, not having a denier on hand to experiment with, I'm going to abandon my idea. 	y
that refused to look through Galileo's telescope.	0 7 0
However, if someone is vested in denial, then they will typically just retreat to s denialist blogs and disengage from you. Favourite outs are that <u>climate</u> is just complex too understand so nothing can be known; science cant be trusted as scientists are just chasing money (a wonderful piece of <u>projection</u>), and at wor that there is global conspiracy for something and any inconvenient data is manufactured by evil scientists bent on world domination. Remember the card	too st,
	is
However, the scientific approach does have value in talking to <u>skeptics</u> if they not too vested in denial. The commonest response that I have seen is to dema data validating predictions that science doesnt make (eg Tristran point A or tha temperatures rise uniformly with <u>CO2</u>). In challenging this, someone engaged forced to look at what the science actually does say - a massive step forward for Fox news or denialist blogs.	and

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Look up a Term